

High-Volume Pressure Booster Pumps



- Max. fluid temp.: 200°F
- Max. fluid viscosity: 31 SSU
- 65°C temp. rise motor
- ODP motor enclosure
- Cast-iron housing
- Inlet/outlet NPT: 1½" and 1¼"

Non-self-priming pumps can lift water up to 25 ft. with foot valve and pump suction line/piping filled with water. Continuous-duty motors can boost pressure for high-flow applications. 1-stage models include a discharge port on the pump housing that can be adjusted 90°. The 2- and 3-stage models are equipped for applications that require higher pressures. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160. cULus Components Recognized for Motor.



45MW11

No. of Stages	HP	Voltage	Amps	Phase	GPM of Water @ Discharge Pressure in PSI+					Max. Pressure	Item No.
					15	20	25	30	35		
1	½ hp	120/240V AC	7.5/3.4	1	38	28	20	—	—	27 psi	45MW11
	½ hp	120/240V AC	7.8/3.9	1	48	40	27	—	—	30 psi	45MW12
	¾ hp	120/240V AC	11.1/5.5	1	60	52	37	19	—	33 psi	45MW13
	¾ hp	208 to 240/480V AC	3.9 to 3.6/1.8	3	60	52	37	19	—	33 psi	45MW14
	1 hp	120/240V AC	13/6.3	1	66	59	52	44	35	42 psi	45MW16
	1 hp	208 to 240/480V AC	4.3 to 4/2.0	3	66	59	52	44	35	42 psi	45MW17
	1 ½ hp	208 to 240/480V AC	5.7 to 5.4/2.7	3	—	75	70	61	47	44 psi	45MW21
	1 ½ hp	240V AC	8.4	1	—	75	70	61	47	44 psi	45MW20
	2 hp	208 to 240/480V AC	7.1 to 6.8/3.4	3	—	—	78	65	55	42 psi	45MW25
	2 hp	240V AC	10.2	1	—	—	78	65	55	42 psi	45MW24
2	1 hp	120/240V AC	13/6.3	1	—	—	35	32	29	60 psi	45MW18
	1 hp	208 to 240/480V AC	4.3 to 4/2.0	3	—	—	35	32	29	60 psi	45MW19
	1 ½ hp	208 to 240/480V AC	5.7 to 5.4/2.7	3	—	—	37	35	32	65 psi	45MW23
	1 ½ hp	240V AC	8.4	1	—	—	37	35	32	65 psi	45MW22
	2 hp	208 to 240/480V AC	7.1 to 6.8/3.4	3	—	—	37	34	33	88 psi	45MW29
	2 hp	240V AC	10.2	1	—	—	37	34	33	88 psi	45MW28
3	3 hp	208 to 240/480V AC	10.1 to 9.2/4.6	3	—	—	41	39	38	92 psi	45MW31
	3 hp	240V AC	14.5	1	—	—	41	39	38	92 psi	45MW30

Description	For Use With Grainger Item Number	Item No.
Replacement Parts		
Mechanical Seal, Buna N	45MW11 to 45MW31	41TK74
Gasket, NBR		41TK75

* To convert to feet of head, multiply psi by 2.31.

Vertical Multistage Booster Pumps



- Max. fluid temp.: 248°F
- Max. fluid viscosity: 100 SSU
- Max. case pressure: 362 psi
- 3450 rpm with NEMA 56C frame
- TEFC motor enclosure
- Inlet/Outlet Flanged: 1¼" and 1½"

The inline design allows pump to also be installed horizontally in locations where suction and discharge connections are in the same plane and have the same pipe sizes. Closed stainless steel impeller with silicon carbide, stainless steel, and EPDM seals. Pumps feature high-pressure performance at low flow, making them suitable for use in pressure-boosting systems, boiler feed applications, ultra filtration and reverse osmosis systems. Compact size allows installation in tight spaces. Continuous-duty motor. Flange Kits are sold separately on Grainger.com and include a gasket, companion flange, 4 nuts, and 4 bolts. 21R871 is for stainless steel models, 21R870 is for cast-iron models. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160. cULus Components Recognized for Motor.



5UWK0

No. of Stages	HP	Voltage	Amps	Phase	GPM of Water @ Discharge Pressure in PSI+						Max. Pressure	STAINLESS STEEL Item No.	CAST-IRON Item No.	
					10	20	40	60	80	100				140
2	½ hp	120/208 to 240V AC	8.6/4.0-4.3	1	21	12	—	—	—	—	—	27 psi	5UWK1	—
	½ hp	208 to 240/480V AC	1.7-1.6/0.8	3	21	12	—	—	—	—	—	27 psi	—	5UWH6
	¾ hp	120/208 to 240V AC	10.7/5.2-5.3	1	40	20	—	—	—	—	—	27 psi	5UWK3	—
3	¾ hp	208 to 240/480V AC	2.5-2.4/1.2	3	40	20	—	—	—	—	—	27 psi	—	5UWH8
	¾ hp	120/208 to 240V AC	10.7/5.2-5.3	1	†	19	—	—	—	—	—	40 psi	5UWK5	5UWH9
	1 hp	120/208 to 240V AC	12.2/6.3-6.1	1	†	†	17	6	—	—	—	66 psi	5UWK7	—
5	1 hp	208 to 240/480V AC	3.3-3.2/1.6	3	†	†	17	6	—	—	—	66 psi	5UWL3	5UWJ7
	2 hp	115/208 to 230V AC	16.6/9.4-8.3	1	†	†	35	14	—	—	—	70 psi	—	5UWJ5
8	1 ½ hp	120/208 to 240V AC	13.6/7.6-6.7	1	†	†	22	19	14	5	—	108 psi	—	5UWJ2
	1 ½ hp	208 to 240/480V AC	4.2/2.1	3	†	†	22	19	14	5	—	108 psi	5UWL4	5UWJ8
9	3 hp	240V AC	12.5	1	25	†	42	35	Stainless Steel	25	—	127 psi	5UWL2	—
	2 hp	120/208 to 240V AC	16.6/9.4-8.3	1	†	†	22	19	16	4	148 psi	5UWK9	5UWJ3	
11	2 hp	208 to 240/480V AC	5.6/2.8	3	†	†	22	19	16	4	148 psi	5UWL5	5UWJ9	
	3 hp	208 to 240/480V AC	7.2/3.6	3	†	†	†	†	†	22	18	230 psi	—	5UWK0
17	3 hp	208 to 240/480V AC	8.4/4.2	3	†	†	†	†	†	22	18	230 psi	5UWL6	—

* To convert to feet of head, multiply psi by 2.31. † Items with this symbol are not recommended for operation in this range and may result in motor damage.

Horizontal Multistage Booster Pumps



- Max. fluid temp.: 194°F
- Max. fluid viscosity: 100 SSU
- Max. case pressure: 150 psi
- 3450 rpm with NEMA 56J frame
- ODP motor enclosure, except 5UXF9 and 5UXG4 are TEFC
- Cast-iron housing

Feature continuous-duty motors for high-flow applications. Closed stainless steel impeller with carbon/ceramic, Buna N, and stainless steel seals. Pumps are not self-priming. Wet moving parts made of 304 stainless steel for longer life. Can be used with thin, clean, nonaggressive and nonexplosive liquids without solid particles or fibers. Suitable for increasing water pressure from city mains or private water systems, rinsing or spraying cooling equipment, and lawn sprinkling. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160. cULus Components Recognized for Motor.



5UXF3

No. of Stages	HP	Voltage	Amps	Phase	Inlet Size	Outlet Size	GPM of Water @ Discharge Pressure in PSI+						Max. Pressure	Item No.
							10	20	40	60	80	100		
3	½ hp	120/240V AC	7.5/3.8	1	¾ in NPT	¾ in NPT	20	18	12	—	—	—	58 psi	5UXF3
	1 hp	120/240V AC	14.4/7.2	1	1¼ in NPT	1 in NPT	50	43	27	—	—	—	59 psi	5UXF6
	1 hp	208 to 240/480V AC	3.7-3.2/1.6	3	1¼ in NPT	1 in NPT	50	43	27	—	—	—	59 psi	5UXG1
4	½ hp	120/240V AC	8.4/4.8	1	¾ in NPT	¾ in NPT	20	19	16	10	—	—	77 psi	5UXF4
	1 ½ hp	120/240V AC	17/8.5	1	1¼ in NPT	1 in NPT	52	48	38	23	1.9	—	81 psi	5UXF7
	1 ½ hp	208 to 240/480V AC	4.4-3.9/2.0	3	1¼ in NPT	1 in NPT	52	48	38	23	1.9	—	81 psi	5UXG2
5	¾ hp	120/240V AC	11.3/5.6	1	¾ in NPT	¾ in NPT	20	19.5	17.5	13.5	7	—	93 psi	5UXF5
	¾ hp	208 to 240/480V AC	2.7-2.5/1.2	3	¾ in NPT	¾ in NPT	20	19.5	17.5	13.5	7	—	93 psi	5UXG0
	2 hp	120/240V AC	20/10	1	1¼ in NPT	1 in NPT	53	49	41	31	17	—	100 psi	5UXF8
6	2 hp	208 to 240/480V AC	5.9-5.2/2.5	3	1¼ in NPT	1 in NPT	53	49	41	31	17	—	80 psi	5UXG3
	3 hp	230/460	7.2/3.6	3	1¼ in NPT	1 in NPT	54	51	45	38	29	17	121 psi	5UXF9
	3 hp	240V AC	12.5	1	1¼ in NPT	1 in NPT	54	51	45	38	29	17	121 psi	5UXG4

* To convert to feet of head, multiply psi by 2.31.